

Request for Quote (RFQ) for Modified Analysis

Date: December 30, 2014

Subject: Modification Reference Number: 2094.5
Title: Aroclor Analysis at 20X Lower CRQLs
Sample Matrix: Water
Method Affected: ARO
Method Source: SOM01.2

Purpose:

The Contractor Laboratory is requested to perform the following modified analyses under the Organic Statement of Work (SOW) SOM01.2, based on the additional specifications listed below. Unless specifically modified by this modification, all analyses, Quality Control (QC), and reporting requirements specified in SOM01.2 remain unchanged and in full force and effect. The number of samples requested in this modification is not guaranteed.

Please note that accepting a modified analysis request is voluntary, and that the Laboratory is not required to accept the modified analysis. There will be no adverse effect to the Laboratory for not accepting the modified analysis request. However, once the Laboratory accepts the request for modified analysis, it shall perform the analysis in accordance with this modification and as specified in SOW SOM01.2.

The Laboratory is requested to review the modification described herein, determine whether or not it shall accept the requested modified analyses, and complete the attached response form. The Laboratory shall provide comments in response to the required changes in the designated area, in order to ensure that the modified analysis can be completed in accordance with the specifications described herein.

Modification to the SOW Specifications:

SOW SOM01.2 requires contract Laboratories to analyze samples for Aroclor (ARO) target analytes through the protocol outlined in Exhibit D, Analytical Method for the Analysis of Aroclors. Specific ARO target analytes and their associated Contract Required Quantitation Limits (CRQLs) are listed in Exhibit C, Section 4.0, of SOW SOM01.2.

The proposed modification will require the Laboratory to analyze water samples for the complete list of ARO target analytes in Exhibit C, Section 4.0 at the CRQLs in Table 1. The Laboratory shall extract the samples and perform all necessary cleanups specified in the SOW.

The Laboratory shall perform MDL studies for the target analytes in Table 1 and make the result available upon EPA's request.

Table 1 – ARO Target Analytes and CRQLs

Analyte	CAS Number	Water CRQL (µg/L)
Aroclor-1016	12674-11-2	0.050
Aroclor-1221	11104-28-2	0.050
Aroclor-1232	11141-16-5	0.050
Aroclor-1242	53469-21-9	0.050
Aroclor-1248	12672-29-6	0.050
Aroclor-1254	11097-69-1	0.050
Aroclor-1260	11096-82-5	0.050
Aroclor-1262	37324-23-5	0.050
Aroclor-1268	11100-14-4	0.050

In order to achieve the lower CRQLs, the Laboratory shall reduce the final extract volume to 1.0 mL from 10.0 mL specified in the Exhibit D of the SOW. The lowest calibration standard shall be analyzed at concentration of 50 ng/mL for each of the target analyte in Table 1. This lowest ICAL standard shall be the additional ICAL standard to the 5-point ICAL standards specified in the SOW. For analytes that are not required to have 5-point ICAL, the single-point ICAL standard must be analyzed at this requested concentration. The Laboratory shall adjust the concentrations of surrogates to be added to this additional ICAL standard to 2.5 ng/mL and 5.0 ng/mL for Tetrachloro-m-xylene (TCX) and Decachlorobiphenyl (DCB), respectively.

Qualitative analysis for all Aroclor target analytes shall be made on five major peaks except Aroclor 1221 where three available major peaks in the lowest ICAL standard can be used. All Aroclor target analytes identified in a sample must be quantitated with a valid 5-point ICAL. The Laboratory shall include this additional standard for mean Calibration Factor and %RSD calculations. The same Continuing Calibration Verification (CCV) must be performed at the same frequency as specified in SOW SOM01.2. If any Aroclor analytes other than Aroclor-1016 and Aroclor-1260 are detected in a sample, the CS3 CCV for that Aroclor analytes shall be analyzed as closing CCVs as well.

Technical acceptance criteria for initial calibration %RSD, continuation calibration verification %D, shall remain according to SOW specifications.

Method blanks shall be prepared and analyzed at the same frequency and sequence as specified in the SOW. The concentration of target analytes in Table 1 in the method blank shall not exceed the CRQLs listed in Table 1.

Laboratory Control Samples (LCS) shall be prepared and analyzed at the same frequency and sequence as specified in the SOW. The LCS spiking solution shall include analytes Aroclor-1016 and Aroclor-1260 in Table 1 at concentrations of 1xCRQLs. The %R technical acceptance criteria for the LCS spiking analytes shall be in the inclusive range of 50-150%.

The Laboratory shall prepare and analyze Matrix Spike/Matrix Spike Duplicate (MS/MSD) samples at the same frequency and sequence as specified in the SOW. The Laboratory shall add the SOW specified MS/MSD spiking solution to the samples at the spiking analyte concentrations of 10xCRQLs listed in Table 1. The technical acceptance criteria for MS/MSD %R and RPD shall remain as specified in the SOW.

Surrogate concentrations added to samples, blanks, LCS and MS/MSD samples shall be adjusted to 10x less than that specified in the SOW. Up to one surrogate per sample may fail the technical acceptance criteria specified in the SOW on a per column basis with the exception of DCB %R being advisory for both columns if Aroclor-1262 or Aroclor-1268 is detected in a sample. However, %R for TCX must meet the acceptance criteria. The corrective actions for surrogate %R failure specified in the SOW shall remain in effect.

All other technical acceptance criteria for ICALs, CCVs, blanks, LCS and samples remain the same as specified in the SOW.

Special Reporting Requirement

The Laboratory shall report the CRQLs listed in Table 1, adjusted according to the equation listed in Exhibit D, even if the level of the corresponding target analyte in the low-point calibration standard is below the CRQLs listed in Table 1.

The Laboratory shall modify all applicable CLP hardcopy forms to include the additional low point ICAL standard. This includes Forms 6, as appropriate.- Forms 3 for LCS and MS/MSD shall include the spiking analytes and the required information on spike amount added, %R and QC limits as appropriate. The EDD shall include the same information as reported in the hardcopy.

Reporting Requirements:

Hardcopy and electronic data reporting are required as specified per SOW SOM01.2. All hardcopy and electronic data shall be adjusted to incorporate modified specifications. This includes attaching a copy of the requirements for modified analysis to the SDG Narrative. If specific problems occur with incorporation of the modified analysis into the hardcopy and/or electronic deliverable, the Laboratory shall contact the DASS Manager within the Sample Management Office (SMO) at (703) 818-4233 or via email at CCSSUPPORT@fedcsc.com for resolution.

All samples analyzed for the same analytical method within an SDG must be analyzed under the same method requirements. The Laboratory shall not include data for the same analytical method with different requirements in the same SDG.

The Laboratory shall include the Modification Reference Number 2094.5 on each hardcopy data form under the “Mod. Ref. No.” header appearing on each form as well as the data element “ServicesID” under the “SamplePlusMethod” node of the EDD. This should be done for the analyses affected by the modified analysis only. The “ServicesID” field should remain blank for all other analyses reported in the SDG. The Laboratory shall also document the Modification Reference Number and Solicitation Number on the SDG Coversheet.

Clarifications/Revisions to the RFQ for Modified Analysis:

Laboratory Name:

Laboratory Comments: